

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs                                | Default Operator | Plurals | Time Stamp       |
|-------|------|---|------------------------------------|------------------|---------|------------------|
| S1    | 133  | toner and ((silica or silicon dioxide or "SiO.sub.2") same ((Dv\$5) or (Dv50/Dv10)))              | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2008/08/08 12:46 |
| S2    | 6    | toner and ((silica or silicon dioxide or "SiO.sub.2") same ((Dv50/Dv10)))                         | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2008/08/08 12:52 |
| S3    | 6    | toner and ((silica or silicon dioxide or "SiO.sub.2") same ((Dv\$2/Dv\$2)))                       | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2008/08/08 13:04 |
| S4    | 2    | JP-2002182423-\$.did.   | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2008/08/08 13:22 |
| S5    | 5    | toner and ((silica or silicon dioxide or "SiO.sub.2") same (D50 same (D90 or D10)))               | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2008/08/08 13:29 |
| S6    | 91   | toner and ((silica or silicon dioxide or "SiO.sub.2") same (GSD or geometric standard deviation)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2008/08/08 13:32 |
| S7    | 2    | S6 and sphericity   | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2008/08/08 13:33 |
| S8    | 0    | S1 and S6   | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2008/08/08 13:51 |
| S9    | 5773 | toner and ((D10 or D90) with D50)   | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2008/08/11 08:20 |
| S10   | 5    | toner and (((D10 or D90) with D50) same (silica or "SiO.sub.2" or silicon dioxide))               | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2008/08/11 08:21 |
| S11   | 1    | ("20070020543").PN.   | US-PGPUB; USPAT; USOCR             | OR               | OFF     | 2008/08/11 08:23 |
| S12   | 7    | toner and (((Dv10 or Dv90) with Dv50) same (silica or "SiO.sub.2" or silicon dioxide))            | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2008/08/11 08:24 |

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|     |     |   |   |     |     |                  |
|-----|-----|---|---|-----|-----|------------------|
| S13 | 7   | toner and ((Dv10 with Dv50) same (silica or "SiO.sub.2" or silicon dioxide))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 08:28 |
| S14 | 0   | toner and ((Dv90 with Dv50) same (silica or "SiO.sub.2" or silicon dioxide))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 08:29 |
| S15 | 37  | toner and ((silica or silicon dioxide or "SiO.sub.2") with (GSD or geometric standard deviation))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 08:36 |
| S16 | 297 | toner and ((silica or silicon dioxide or "SiO.sub.2") with (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution or particle size distribution))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 08:38 |
| S17 | 72  | S16 and ((large or great or wide) with (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution or particle size distribution))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 08:39 |
| S18 | 49  | S16 and ((large or great or wide) near4 (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution or particle size distribution))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 08:39 |
| S35 | 1   | ("6377281").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR  | OFF | 2008/08/11 11:58 |
| S36 | 15  | (toner or developer) and (((D50 or Dv50) same (D10 or Dv10 or D90 or Dv90)) same (silica or "SiO.sub.2" or silicon dioxide or metal oxide or external additive or surface additive or fluidity))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 12:11 |
| S37 | 1   | (developer and external additive and hexahedral inorganic fine particles).ti.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 12:29 |
| S38 | 16  | (toner or developer) and (((D50 or Dv50) same (D10 or Dv10 or D90 or Dv90)) same (silica or "SiO.sub.2" or silicon dioxide or metal oxide or external additive or surface additive or fluidity or titanium dioxide or titania or aluminum oxide or alumina or zinc oxide or "TiO.sub.2" or "Al.sub.2O.sub.3" or ZnO)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 12:30 |
| S39 | 1   | S38 not S36   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 12:31 |

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|     |      |  |   |     |    |                  |
|-----|------|--|---|-----|----|------------------|
| S40 | 297  | toner and ((silica or silcon dioxide or "SiO.sub.2") with (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution or particle size distribution)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2008/08/11 12:32 |
| S41 | 72   | S40 and ((large or great or wide) with (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution or particle size distribution))                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2008/08/11 12:32 |
| S42 | 225  | S40 not S41  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2008/08/11 12:32 |
| S43 | 49   | S40 and ((large or great or wide) near4 (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution or particle size distribution))                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2008/08/11 12:33 |
| S44 | 225  | S42 not S43  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2008/08/11 12:33 |
| S45 | 223  | S44 not S38  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2008/08/11 12:33 |
| S46 | 45   | toner and ((silica or silcon dioxide or "SiO.sub.2") with (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution))                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2008/08/11 12:38 |
| S47 | 45   | (toner or developer) and ((silica or silcon dioxide or "SiO.sub.2") with (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution))                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2008/08/11 12:39 |
| S48 | 5807 | toner and ((D50 or Dv50) same (D10 or Dv10))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2008/08/11 13:09 |
| S49 | 7    | toner and (((D50 or Dv50) same (D10 or Dv10)) same (external additive or metal oxide))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2008/08/11 13:09 |
| S50 | 0    | toner and (((D50 or Dv50) same (D10 or Dv10)) same (fluidizing agent))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2008/08/11 13:10 |
| S51 | 3    | toner and (((D50 or Dv50) same (D10 or Dv10)) same (lubricant or lubricating agent))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2008/08/11 13:11 |

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|     |     |   |   |     |     |                  |
|-----|-----|---|---|-----|-----|------------------|
| S52 | 8   | toner and (((D50 or Dv50) same (D10 or Dv10)) same (\$3oxide))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 13:12 |
| S53 | 7   | toner and (((D50 or Dv50) same (D10 or Dv10)) same (external))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 13:14 |
| S54 | 13  | toner and (((D50 or Dv50) same (D10 or Dv10)) same (silic\$8))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 13:14 |
| S55 | 3   | toner and (((D50 or Dv50) same (D10 or Dv10)) same (lubrica\$8))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 13:17 |
| S56 | 4   | toner and (((D50 or Dv50) same (D10 or Dv10)) same (fluid\$8))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 13:18 |
| S57 | 7   | toner and (((D50 or Dv50) same (D10 or Dv10)) same (external\$8))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 13:18 |
| S58 | 6   | toner and (((D50 or Dv50) same (D10 or Dv10)) same (surface))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 13:18 |
| S59 | 2   | developer and (((D50 or Dv50) same (D10 or Dv10)) same (extern\$8))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 13:20 |
| S60 | 0   | developer and (((D50 or Dv50) same (D10 or Dv10)) same (metal oxide))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 13:21 |
| S61 | 7   | developer and (((D50 or Dv50) same (D10 or Dv10)) same (\$3oxide))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 13:21 |
| S63 | 152 | (toner or developer) and ((silica or silicone dioxide or "SiO.sub.2") near8 (polydispersity or particle size distribution)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 13:29 |
| S64 | 1   | ("20070020543").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR  | OFF | 2008/08/11 14:30 |
| S65 | 1   | S64 and part\$3 agent   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 14:30 |

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|     |      |   |   |     |     |                  |
|-----|------|---|---|-----|-----|------------------|
| S66 | 1    | ("20070020543").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR  | OFF | 2008/08/11 20:58 |
| S67 | 1    | S66 and conduct\$4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/11 20:58 |
| S68 | 731  | 430/108.7.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/12 07:37 |
| S69 | 925  | 430/108.6.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/12 07:37 |
| S70 | 7    | toner and (charge control resin near6<br>molecular weight)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/12 07:38 |
| S71 | 7    | toner and (charge control resin near8<br>molecular weight)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/12 07:42 |
| S72 | 8    | toner and (charge control resin near10<br>molecular weight)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/12 07:42 |
| S73 | 1    | S72 not S71   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/12 07:42 |
| S74 | 73   | toner and (charge control resin with<br>molecular weight)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/12 07:43 |
| S75 | 65   | S74 not S72   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2008/08/12 07:43 |
| S76 | 1475 | (toner or developer) and ((third or three)<br>with (external additive or inorganic particle<br>or inorganic additive or conductive particle<br>or silica or titania)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON  | 2009/04/23 10:19 |
| S77 | 1    | ("5776646").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR  | OFF | 2009/04/23 10:21 |
| S78 | 1    | ("20070020543").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR  | OFF | 2009/08/07 16:37 |

### EAST Search History (Prior Art)

|     |   |  |   |     |    |                  |
|-----|---|--|---|-----|----|------------------|
| S79 | 1 | S78 and (conduct\$4 or resist\$5 or nonconduct\$4 or non-conduct\$4) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/08/07 16:38 |
|-----|---|--|---|-----|----|------------------|

### EAST Search History (Interference)

|  |  |                                  |  |  |  |
|--|--|----------------------------------|--|--|--|
|  |  | < This search history is empty > |  |  |  |
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